

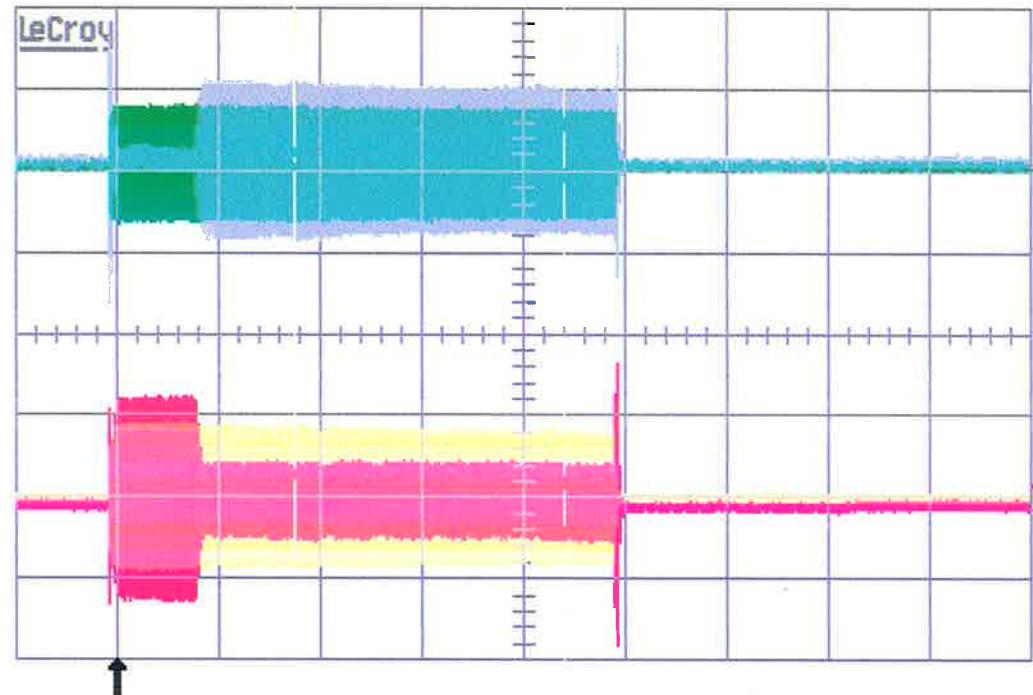
24-Mar-23  
10:59:44

1  
1 ms  
0.50 V

2  
1 ms  
100mV

3  
1 ms  
200mV

4  
1 ms  
100mV



54 sweeps: average low high sigma

rms(1)	182.6mV	97.4	232.3	58.9
rms(2)	35.7mV	4.3	59.5	26.8
rms(3)	223.9mV	127.8	278.5	65.5
rms(4)	35.1mV	29.3	69.5	9.3
amp1(3)	601mV	330	767	187

1 ms

1 .5 V AC  
2 .1 V AC  
3 .5 V AC  
4 .1 V AC

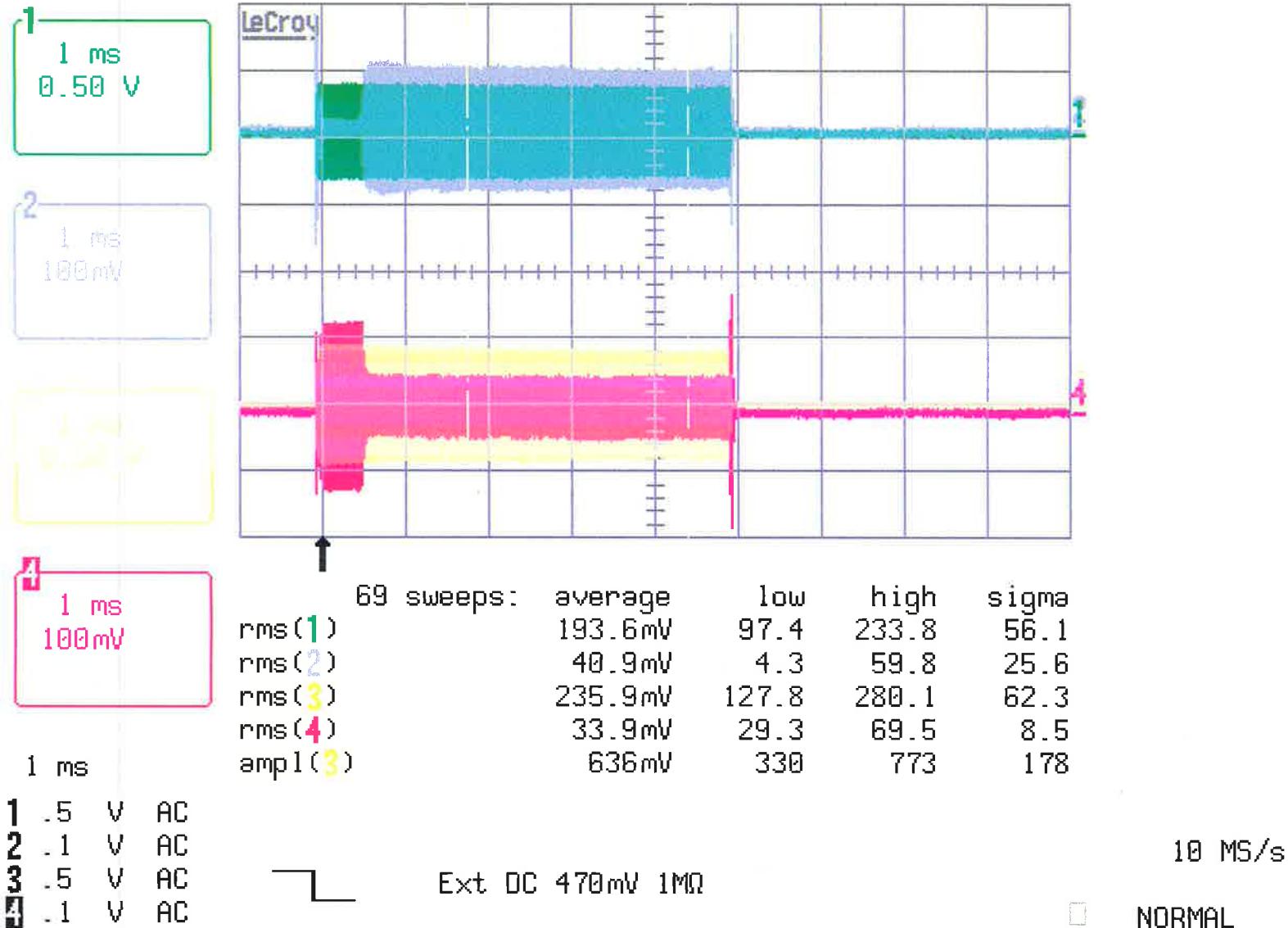


Ext DC 470mV 1MΩ

10 MS/s

NORMAL

24-Mar-23  
10:59:59



24-Mar-23  
10:59:49

TRIGGER SETUP

1  
1 ms  
50mV

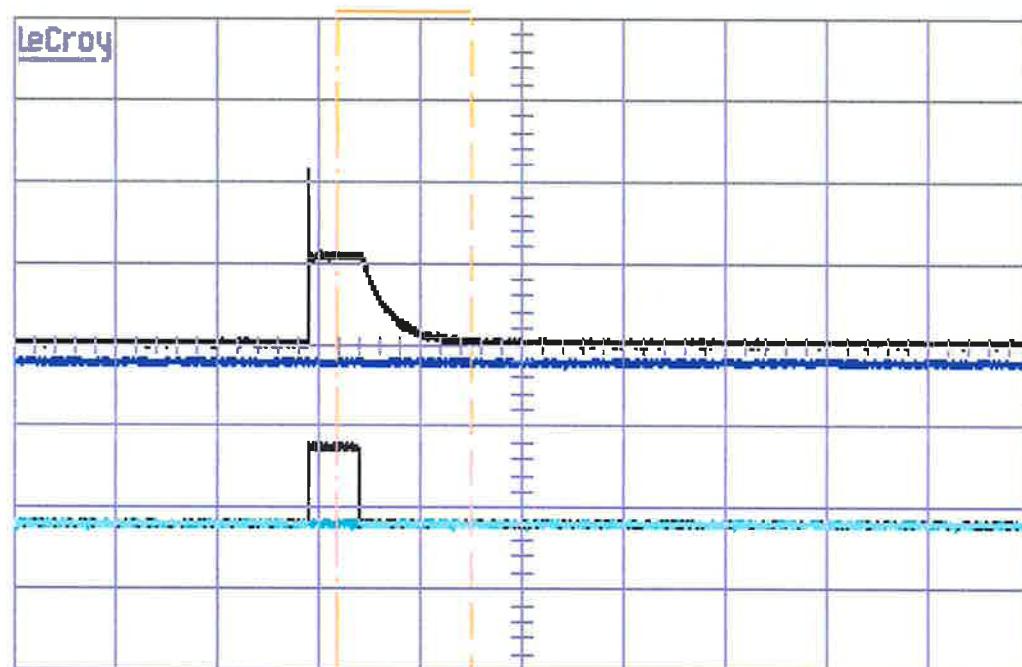
3  
1 ms  
5.0 V

4  
1 ms  
200mV

2  
1 ms  
2.00 V

1 ms

1 50 mV DC  
2 2 V DC  
3 5 V DC  
4 .2 V AC



Edge SMART

trigger on  
1 2 3 4 Ext  
Ext10 Line

cplg Ext10  
DC AC  
LFREJ HFREJ

slope Ext10  
Pos Neg  
Window

External  
Atten x1  
DC50Ω DC1MΩ

holdoff  
---  
OFF Time Evts

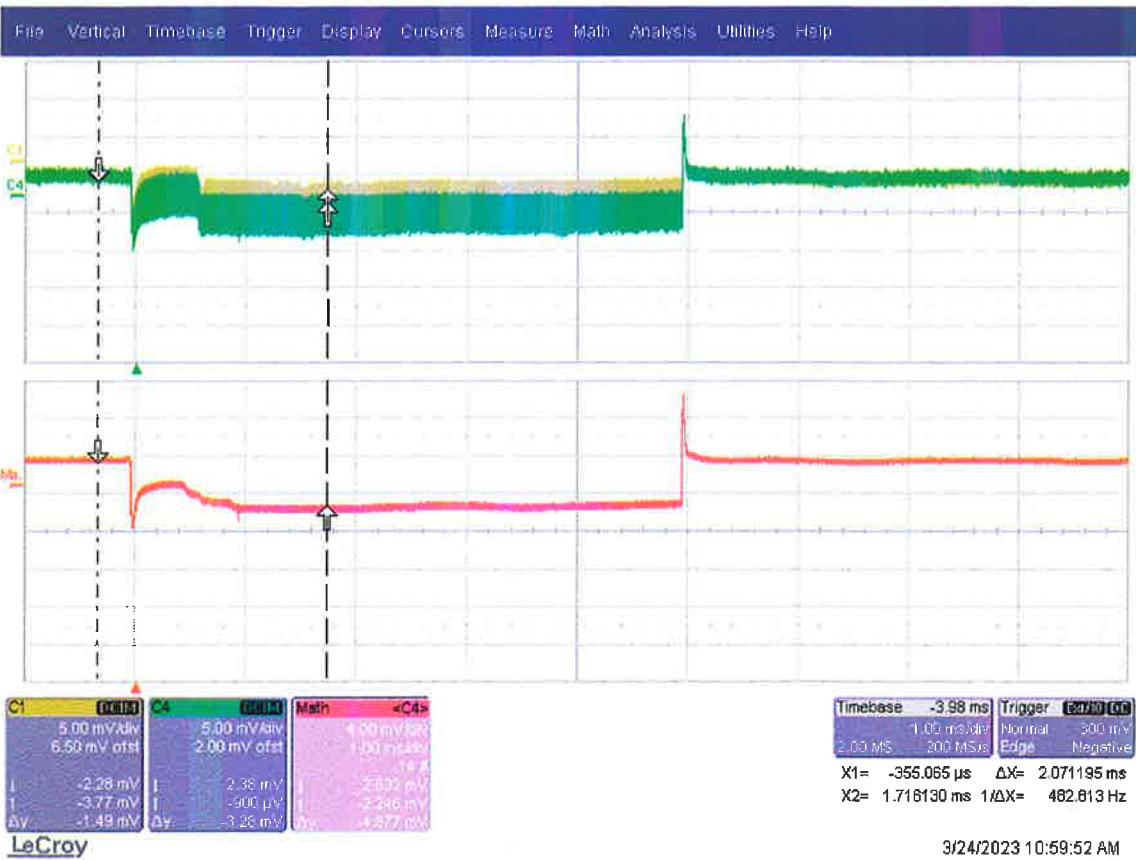
13 sweeps: average low high sigma  
rms(1) 29.24mV 29.21 29.28 0.02  
rms(2) 43mV 42 43 0  
rms(3) 1.971 V 1.967 1.981 0.004  
rms(4) 4.5mV 4.3 4.6 0.1

phase(1,3)

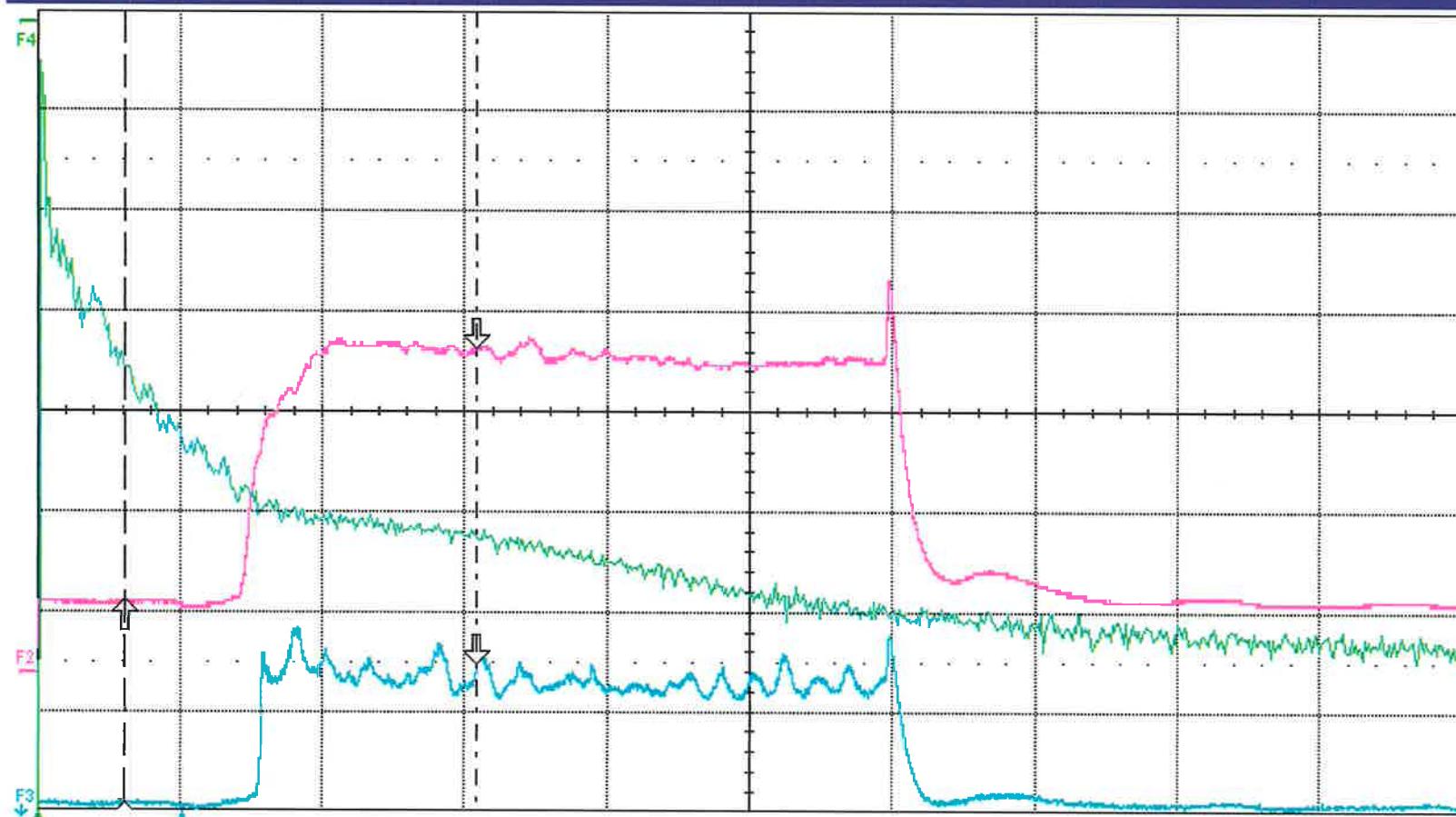
Ext10 DC 0.75 V 50Ω

10 MS/s

NORMAL



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



F2 <F3>  
1.02/div  
1.00 ms/div  
42 #  
↓ 3,322475  
↑ 736.730e-3  
Δy -2.585745

F3 script(C3,C2)  
2.00/div  
1.00 ms/div  
↓ 3,5316  
↑ 692.2e-3  
Δy -2.8394

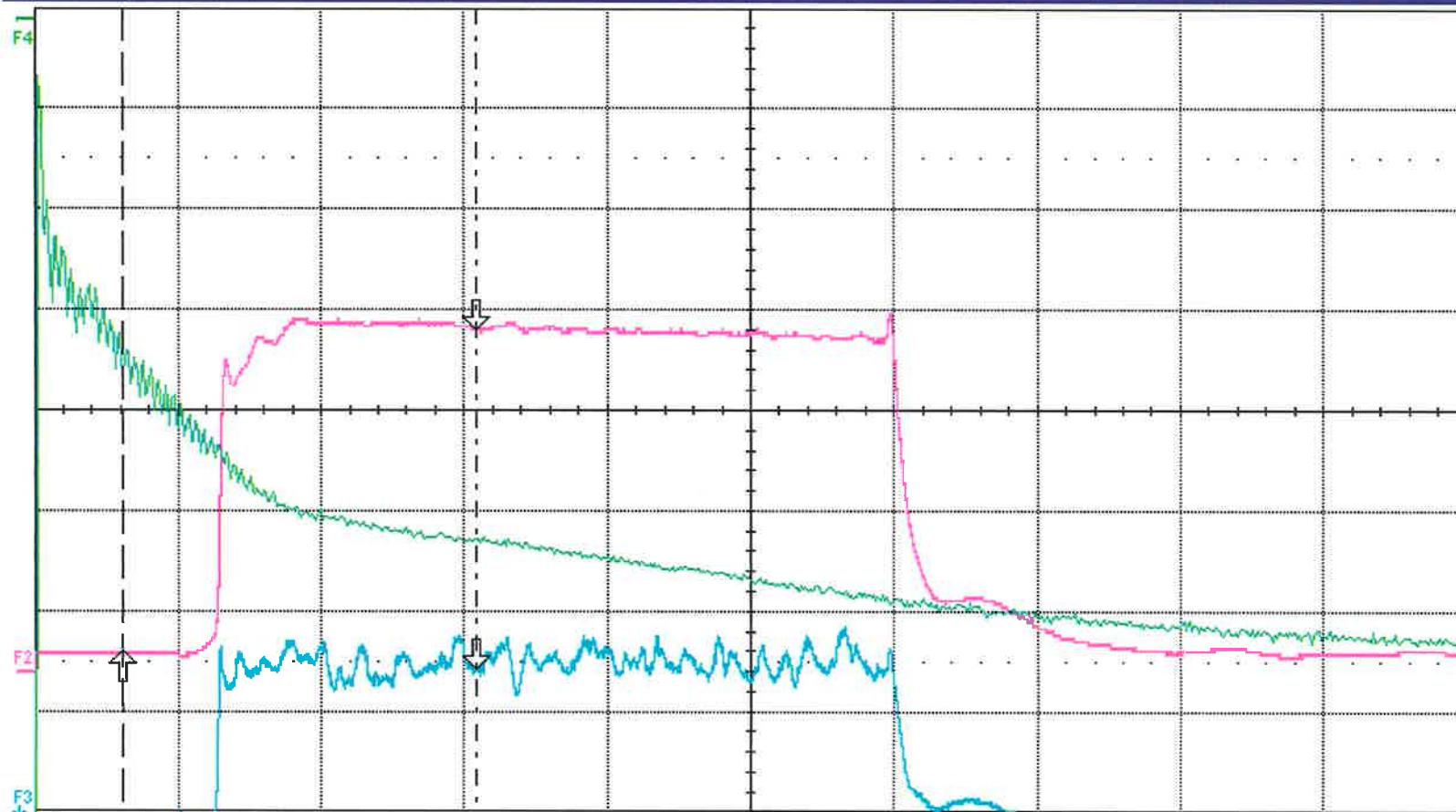
F4 <FFT(C2)>  
10.0 dB/div  
10.0 kHz/div  
42 #  
↓ --  
↑ --  
Δy --

Tbase -3.98 ms Trigger Ex/10 DC  
50.0 kS 1.00 ms/div Normal 130 mV  
5.0 MB/s Edge Negative  
X1= 2.0652 ms ΔX= -2.4644 ms  
X2= -399.2 μs 1/ΔX= -405.78 Hz

LeCroy

3/24/2023 11:00:03 AM

File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



F2 <F3>  
1.02/div  
1.00 ms/div  
305 #  
↓ 3.4399612  
↑ 211.069e-3  
 $\Delta y$  -3.2388543

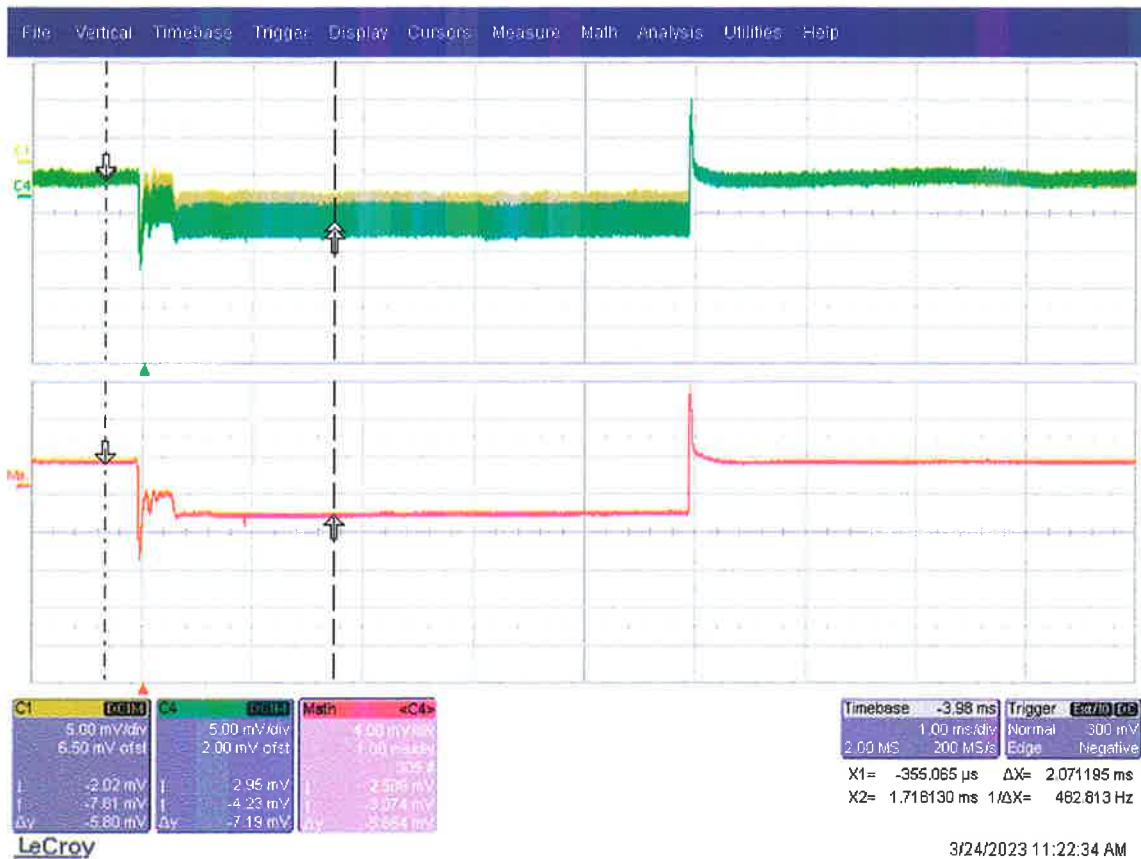
F3 script(C3,C2)  
2.00/div  
1.00 ms/div  
305 #  
↓ 3.4292  
↑ 175.1e-3  
 $\Delta y$  -3.2541

F4 <FFT(C2)>  
10.0 dB/div  
10.0 kHz/div  
305 #  
↓ --  
↑ --  
 $\Delta y$  --

Tbase -3.98 ms Trigger Ext/10 DC  
1.00 ms/div Normal 130 mV  
50.0 kS 5.0 MS/s Edge Negative  
X1= 2.0652 ms  $\Delta X$ = -2.4644 ms  
X2= -399.2  $\mu$ s  $1/\Delta X$ = -405.78 Hz

LeCroy

3/24/2023 11:22:37 AM



24-Mar-23  
11:22:37

TRIGGER SETUP

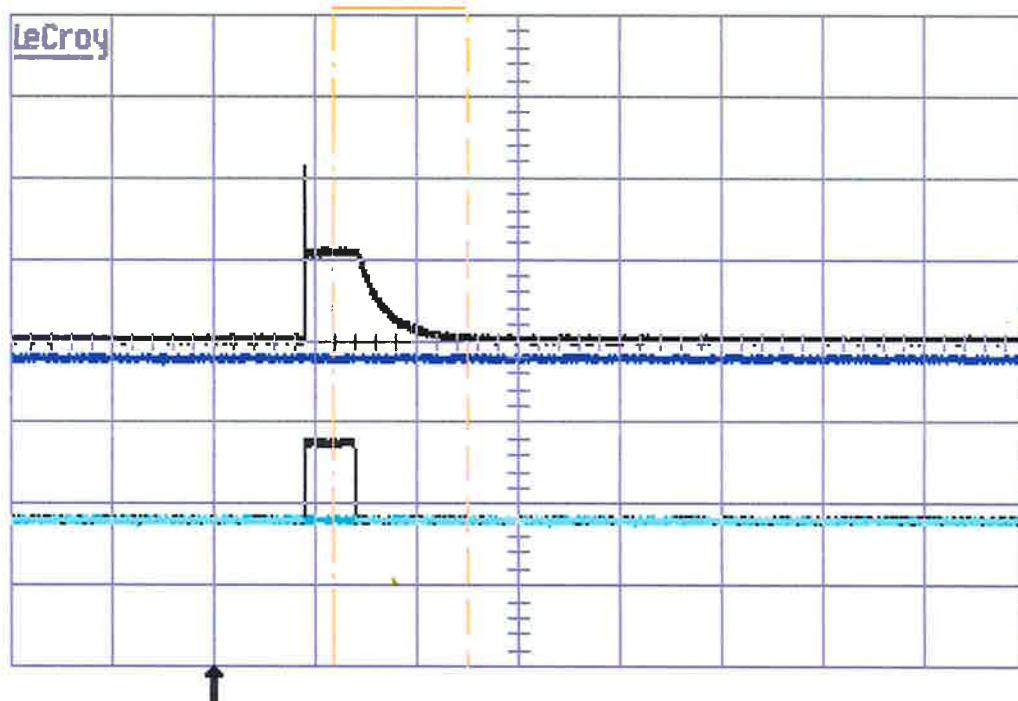
1  
1 ms  
50mV

3  
1 ms  
5.0 V

4  
1 ms  
200mV

2  
1 ms  
2.00 V

1 ms  
1 50 mV DC  
2 2 V DC  
3 5 V DC  
4 .2 V AC



Edge SMART

trigger on  
1 2 3 4 Ext  
Ext10 Line

cplg Ext10  
DC AC  
LFREJ HFREJ

slope Ext10  
Pos Neg  
Window

External  
Atten x1  
DC50Ω DC1MΩ

holdoff  
---  
OFF Time Evts

305 sweeps: average low high sigma  
rms(1) 29.31mV 29.22 29.41 0.04  
rms(2) 43mV 42 44 0  
rms(3) 1.969 V 1.961 1.982 0.004  
rms(4) 4.4mV 4.2 4.5 0.0  
phase(1,3) --- --- --- ---

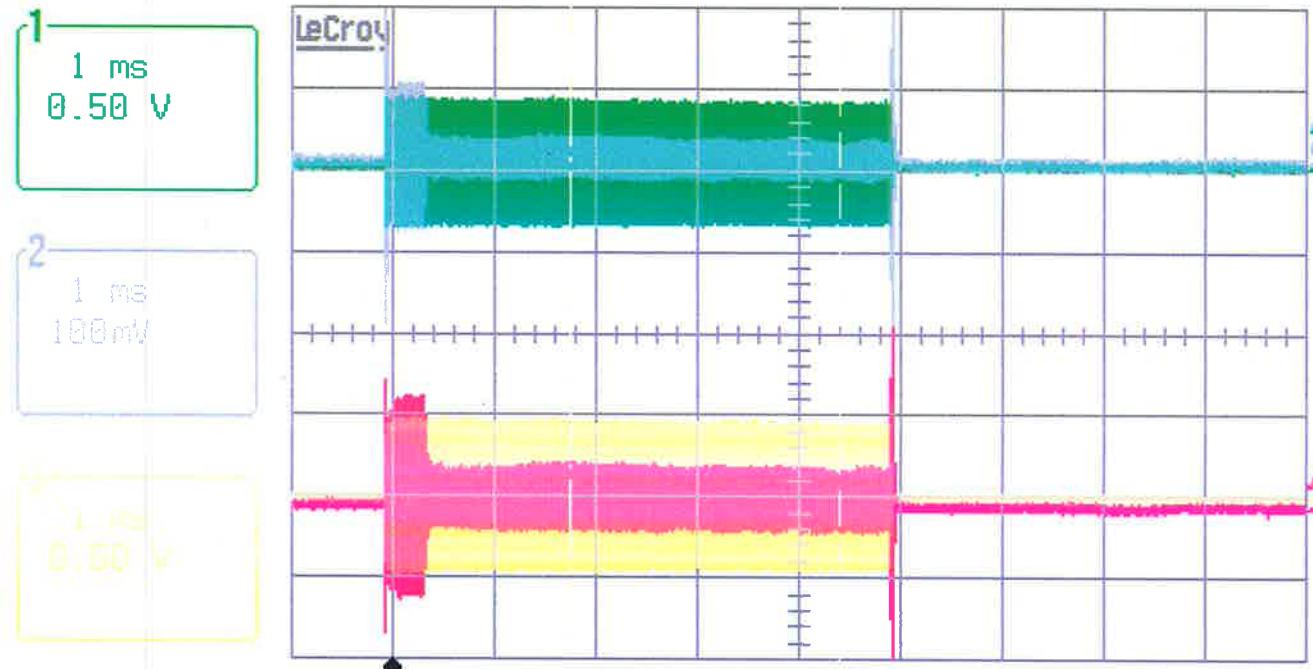


Ext10 DC 0.75 V 50Ω

10 MS/s

NORMAL

24-Mar-23  
11:22:53



4

1 ms  
100mV

	306 sweeps:	average	low	high	sigma
rms(1)		255.5mV	250.2	261.0	2.6
rms(2)		14.1mV	13.5	14.9	0.2
rms(3)		300.4mV	294.8	306.2	2.8
rms(4)		24.9mV	24.4	26.1	0.3
amp1(3)		830mV	814	845	9

1 ms

1 .5 V AC  
2 .1 V AC  
3 .5 V AC  
4 .1 V AC



Ext DC 470mV 1MΩ

10 MS/s

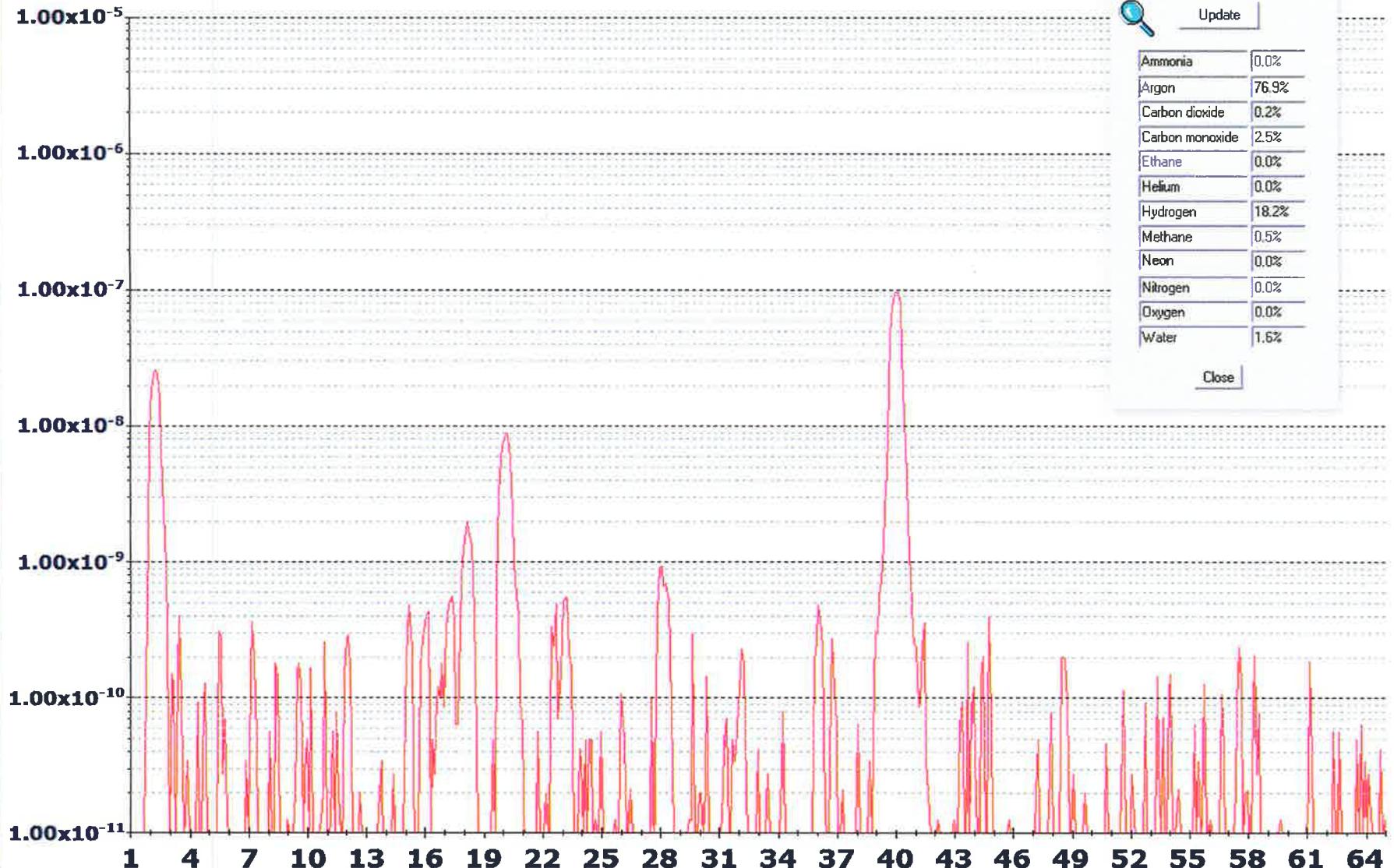
NORMAL

**PFRC FEC RGA Analog Scan**

Log every scan: 257/1000

Mar 24, 2023 11:22:43 AM

Torr



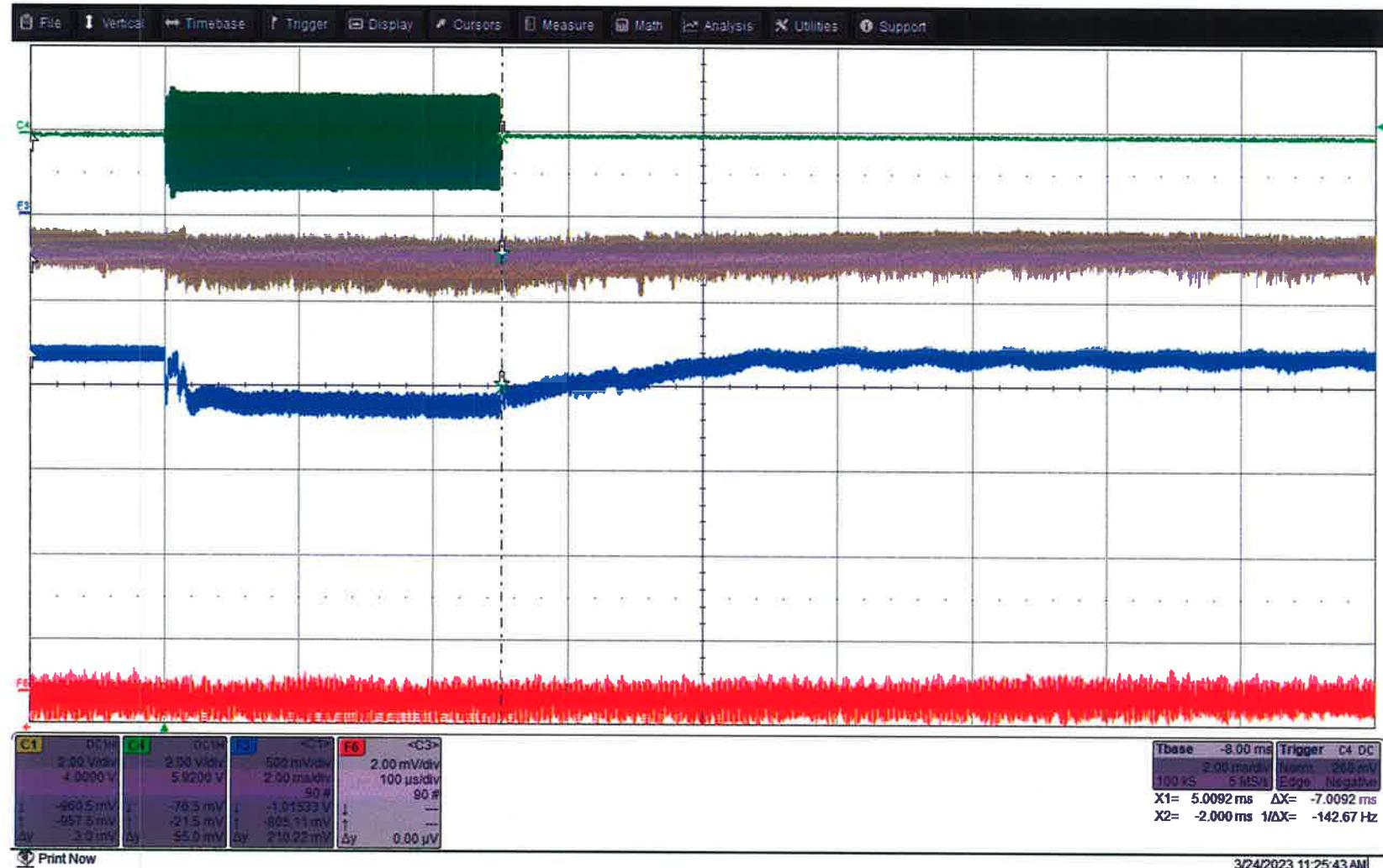
Analysis for (pfrc-rga-fec)



Update

Ammonia	0.0%
Argon	76.9%
Carbon dioxide	0.2%
Carbon monoxide	2.5%
Ethane	0.0%
Helium	0.0%
Hydrogen	18.2%
Methane	0.5%
Neon	0.0%
Nitrogen	0.0%
Oxygen	0.0%
Water	1.6%

Close



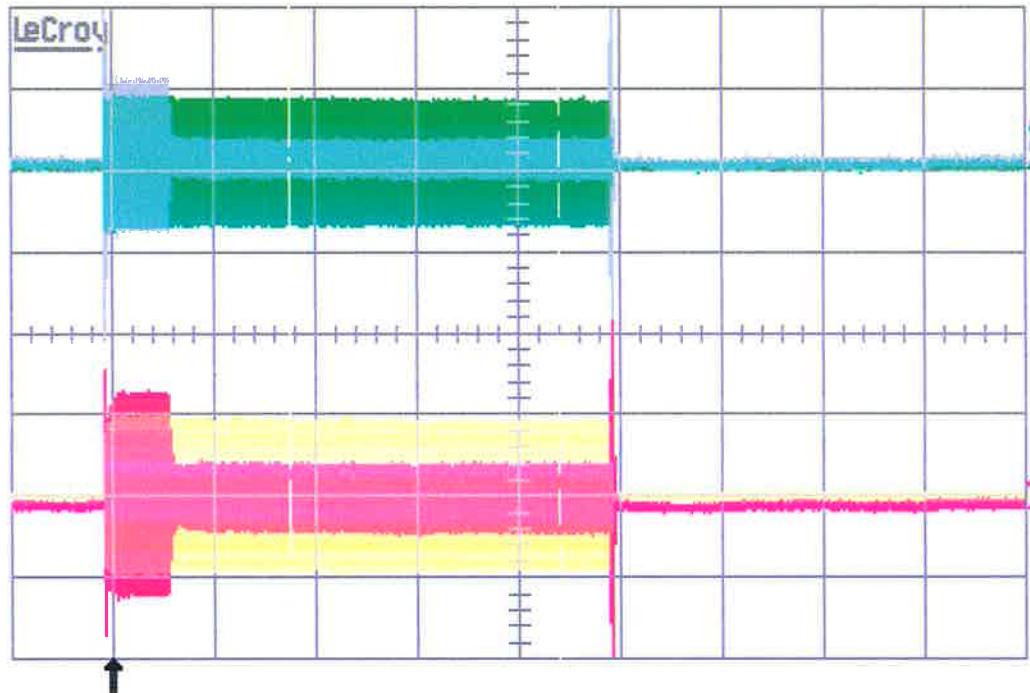
24-Mar-23  
11:36:20

1  
1 ms  
0.50 V

2  
1 ms  
100mV

3  
1 ms  
100mV

4  
1 ms  
100mV



465 sweeps: average low high sigma  
rms(1) 262.7mV 255.2 266.9 2.7  
rms(2) 14.5mV 13.0 58.6 4.9  
rms(3) 307.2mV 299.4 317.0 3.0  
rms(4) 27.2mV 25.3 80.8 5.9  
amp1(3) 847mV 823 883 9

1 ms

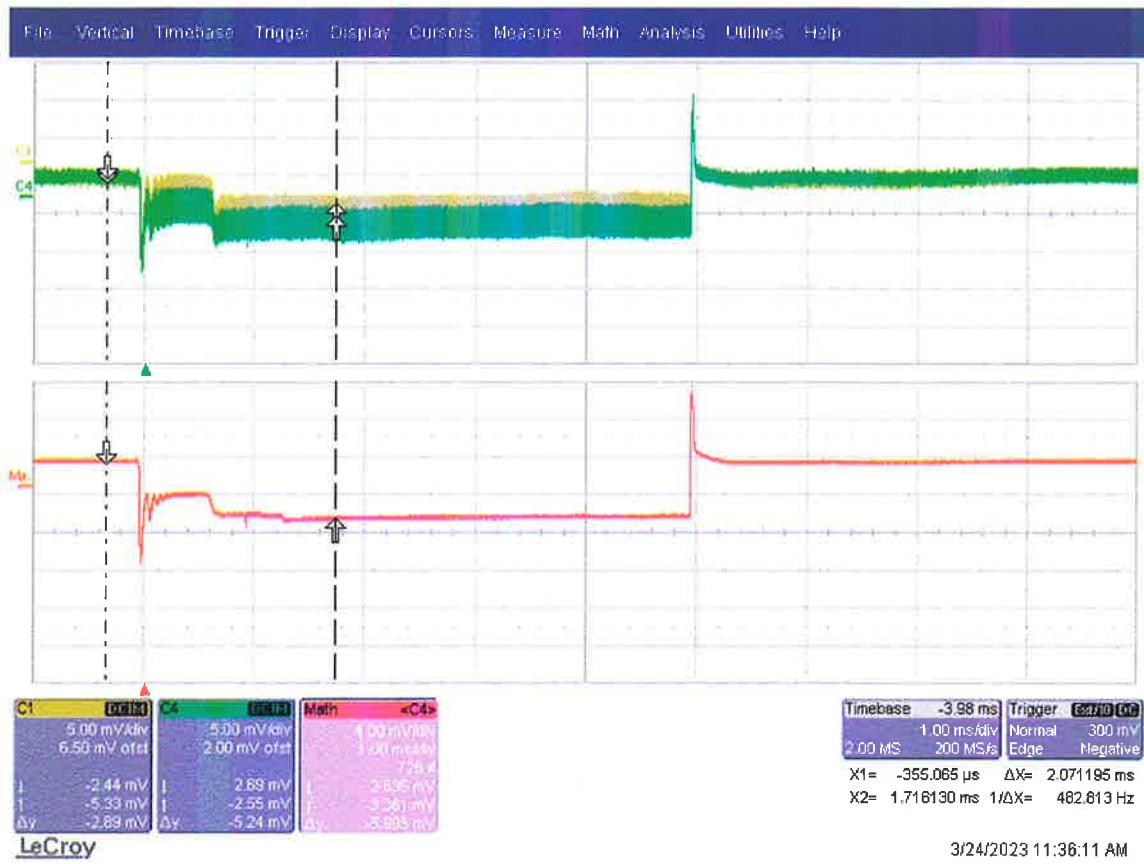
1 .5 V AC  
2 .1 V AC  
3 .5 V AC  
4 .1 V AC



Ext DC 470mV 1MΩ

10 MS/s

NORMAL



24-Mar-23  
11:36:09

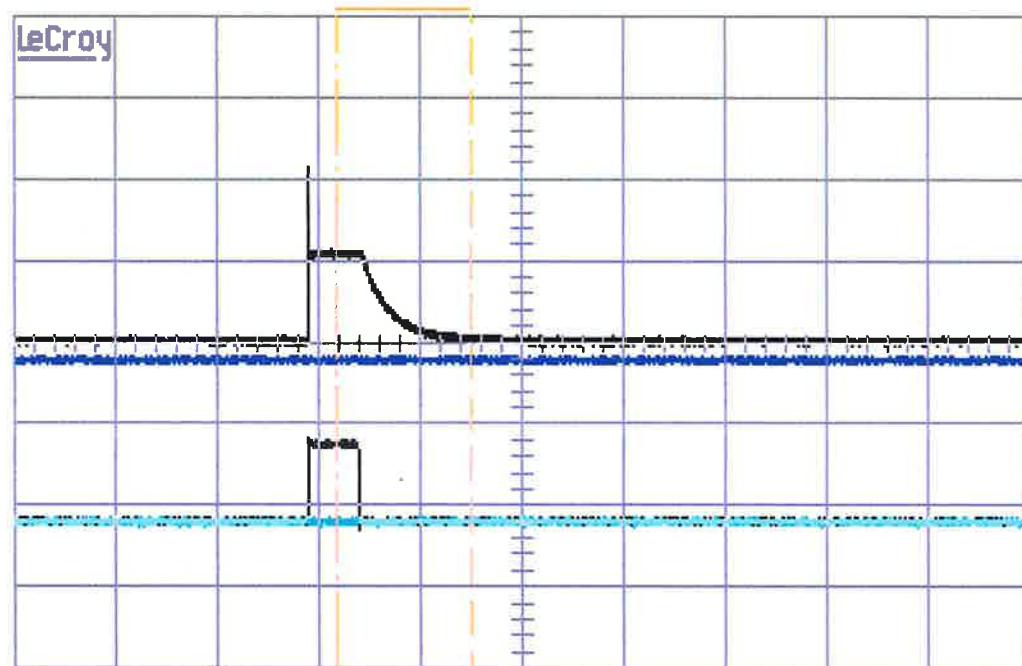
TRIGGER SETUP

1  
1 ms  
50mV

3  
1 ms  
5.0 V

4  
1 ms  
200mV

2  
1 ms  
2.00 V



Edge SMART

trigger on  
1 2 3 4 Ext  
Ext10 Line

cplg Ext10  
DC AC  
LFREJ HFREJ

slope Ext10  
Pos Neg  
Window

External  
Atten x1  
DC50Ω DC1MΩ

holdoff  
---  
OFF Time Evts

721 sweeps: average low high sigma  
rms(1) 29.25mV 29.15 29.35 0.04  
rms(2) 43mV 42 44 0  
rms(3) 1.970 V 1.962 1.985 0.004  
rms(4) 4.3mV 4.2 4.4 0.0  
phase(1,3) - - - - - - - -

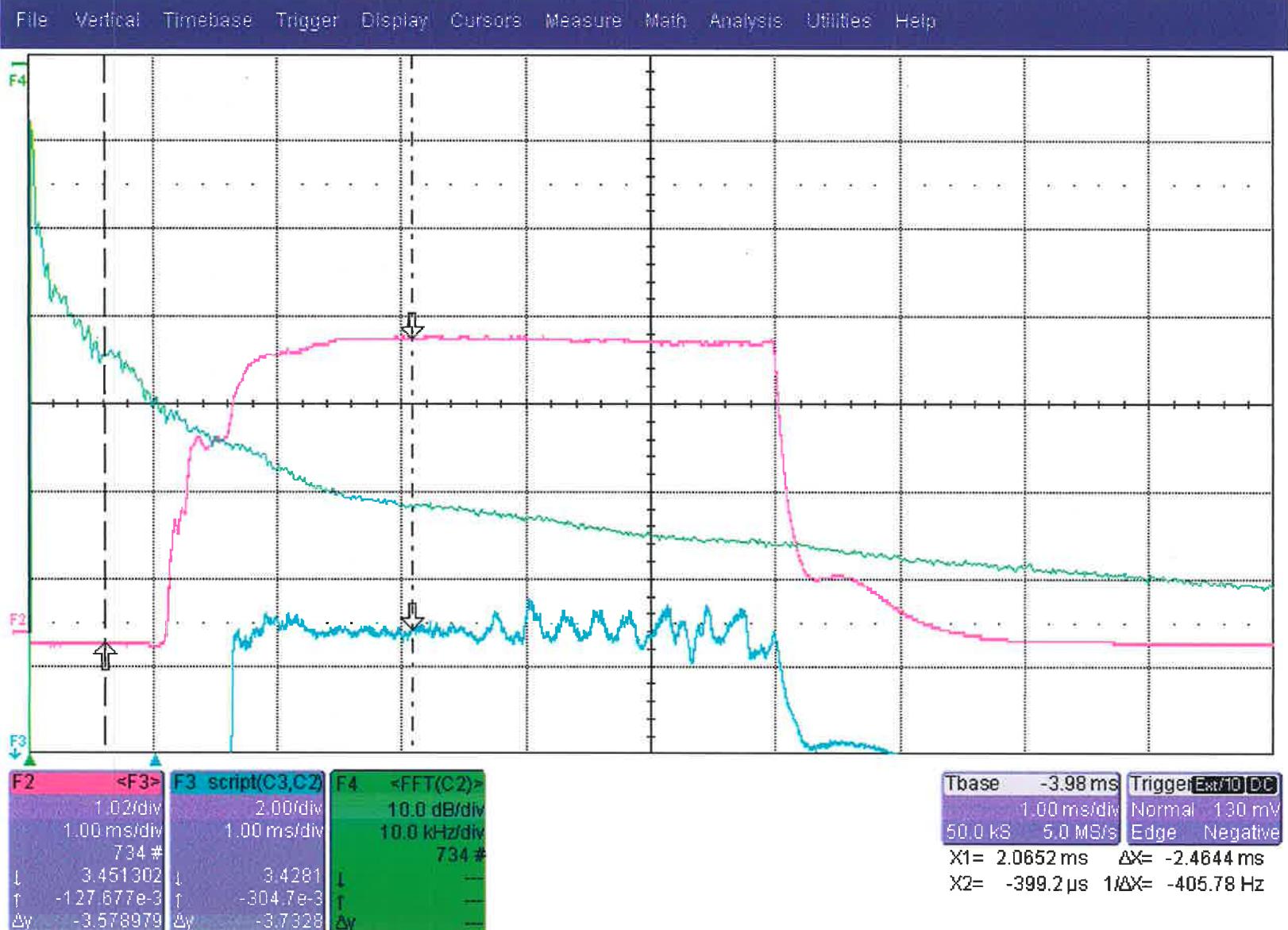
1 50 mV DC  
2 2 V DC  
3 5 V DC  
4 .2 V AC

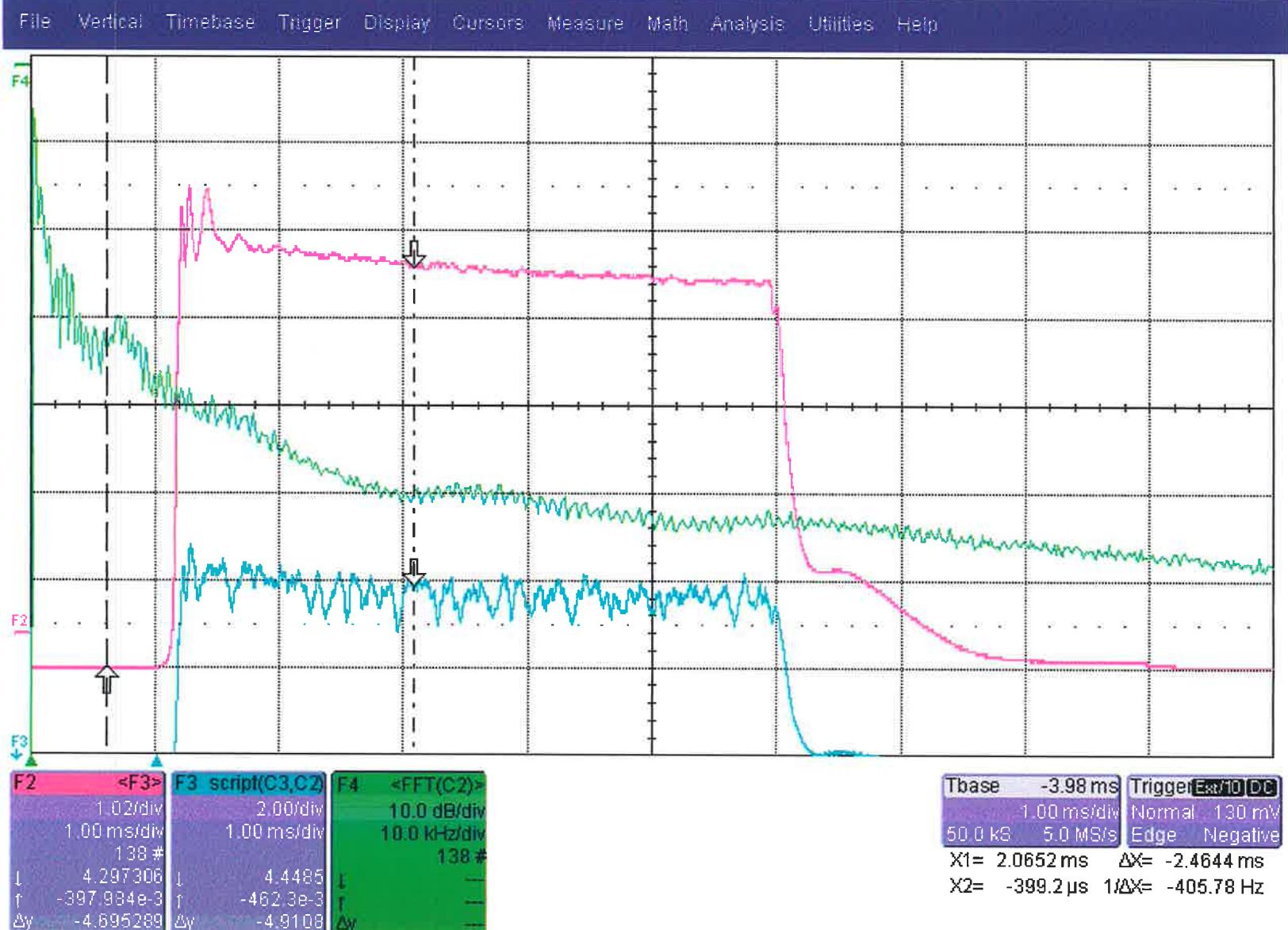


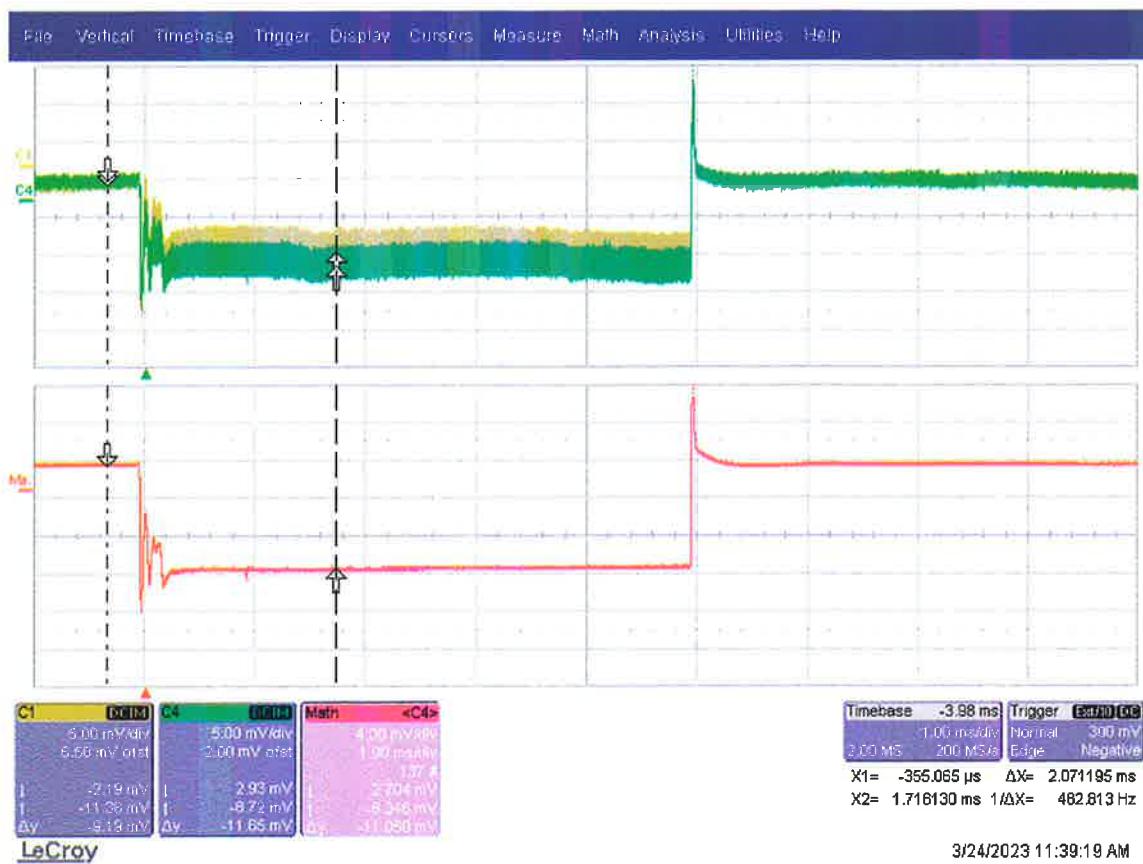
Ext10 DC 0.75 V 50Ω

10 MS/s

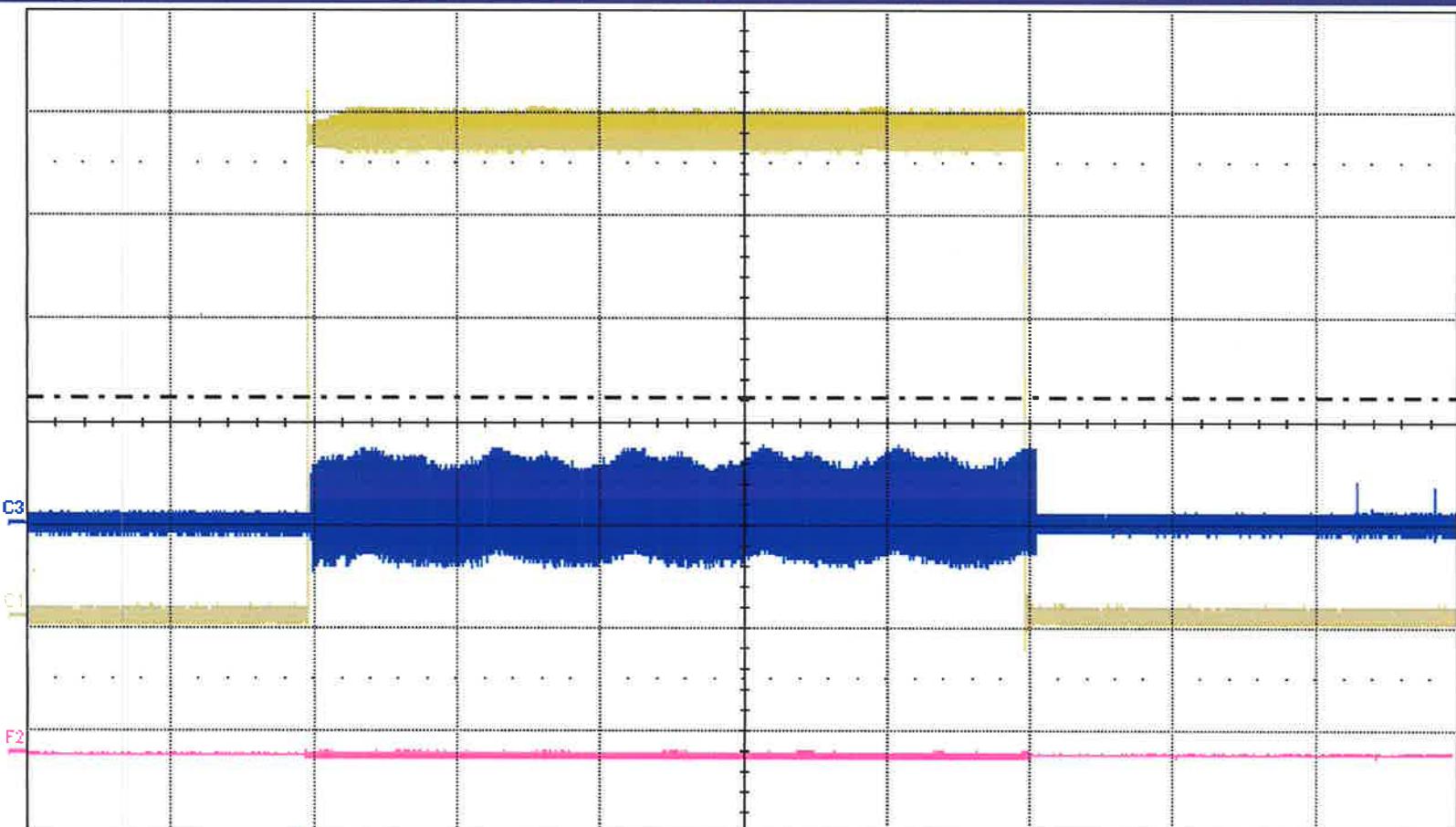
NORMAL







File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



C1      DDC1M  
1.00 V/div  
-1.890 V ofst  
-----  
2.13 V

DN      DDC1M  
200 mV/div  
-198.0 mV  
-----  
246 mV

F2      <C3>  
194 mV/div  
1.00 ms/div  
312 #  
-----  
672 mV

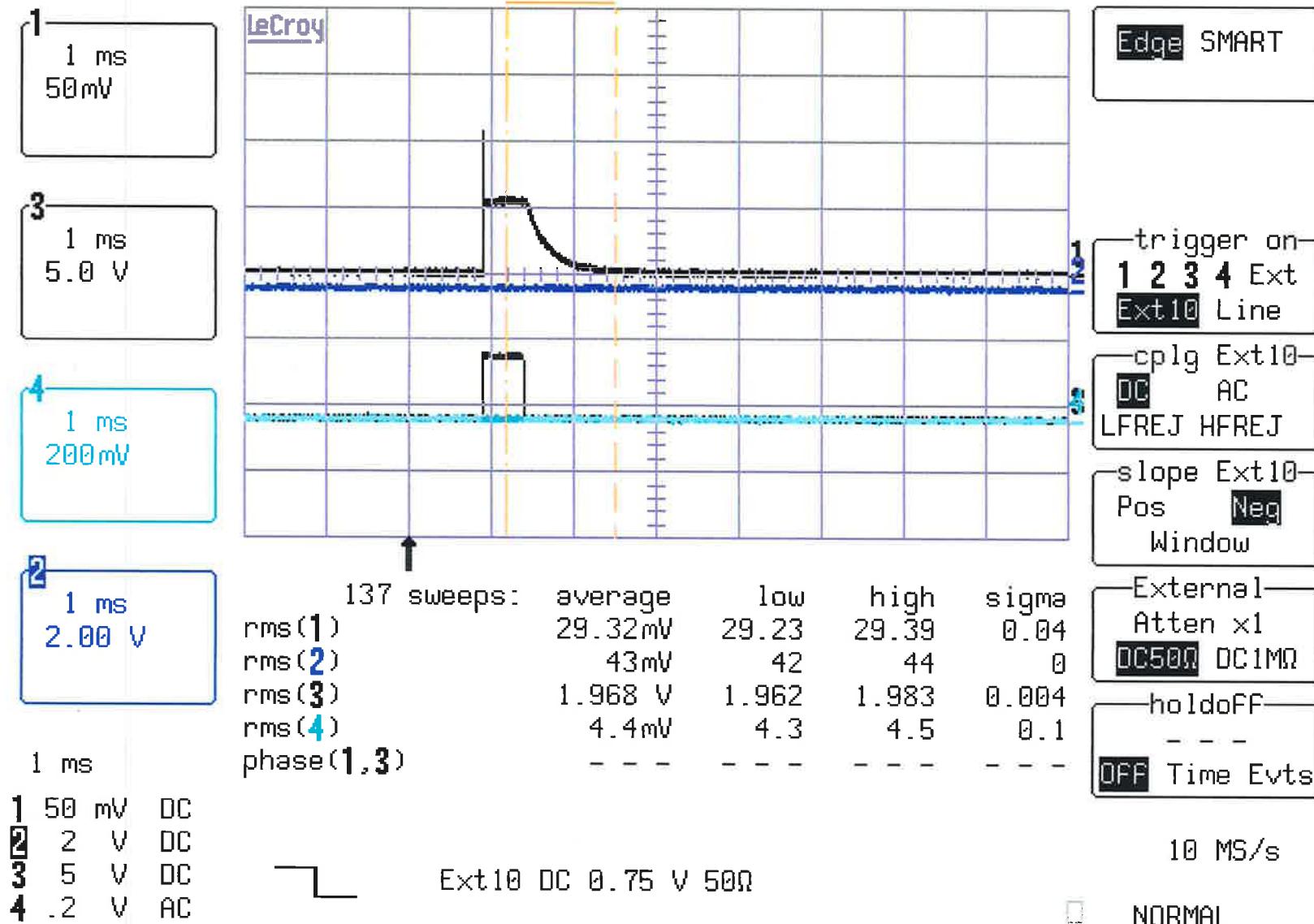
Tbase -3.04 ms      Trigger C1 DC  
1.00 ms/div      Normal 980 mV  
1.00 MS      100 MS/s      Edge Positive

TELEDYNE LECROY

3/24/2023 11:39:19 AM

24-Mar-23  
11:39:23

TRIGGER SETUP



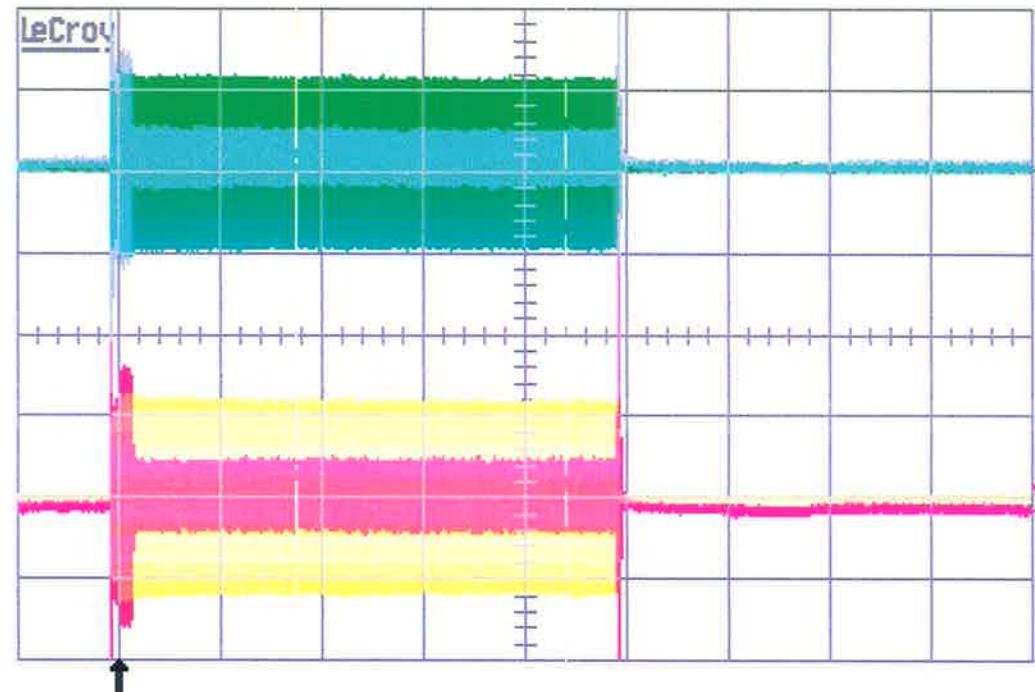
24-Mar-23  
11:39:38

1  
1 ms  
0.50 V

2  
1 ms  
100mV

3  
1 ms  
0.50 V

4  
1 ms  
100mV



46 sweeps: average low high sigma  
rms(1) 364.9mV 360.5 368.3 2.7  
rms(2) 21.6mV 21.3 22.0 0.2  
rms(3) 406.6mV 402.5 409.8 2.5  
rms(4) 31.3mV 30.8 31.8 0.3  
amp1(3) 1.141 V 1.120 1.150 0.009

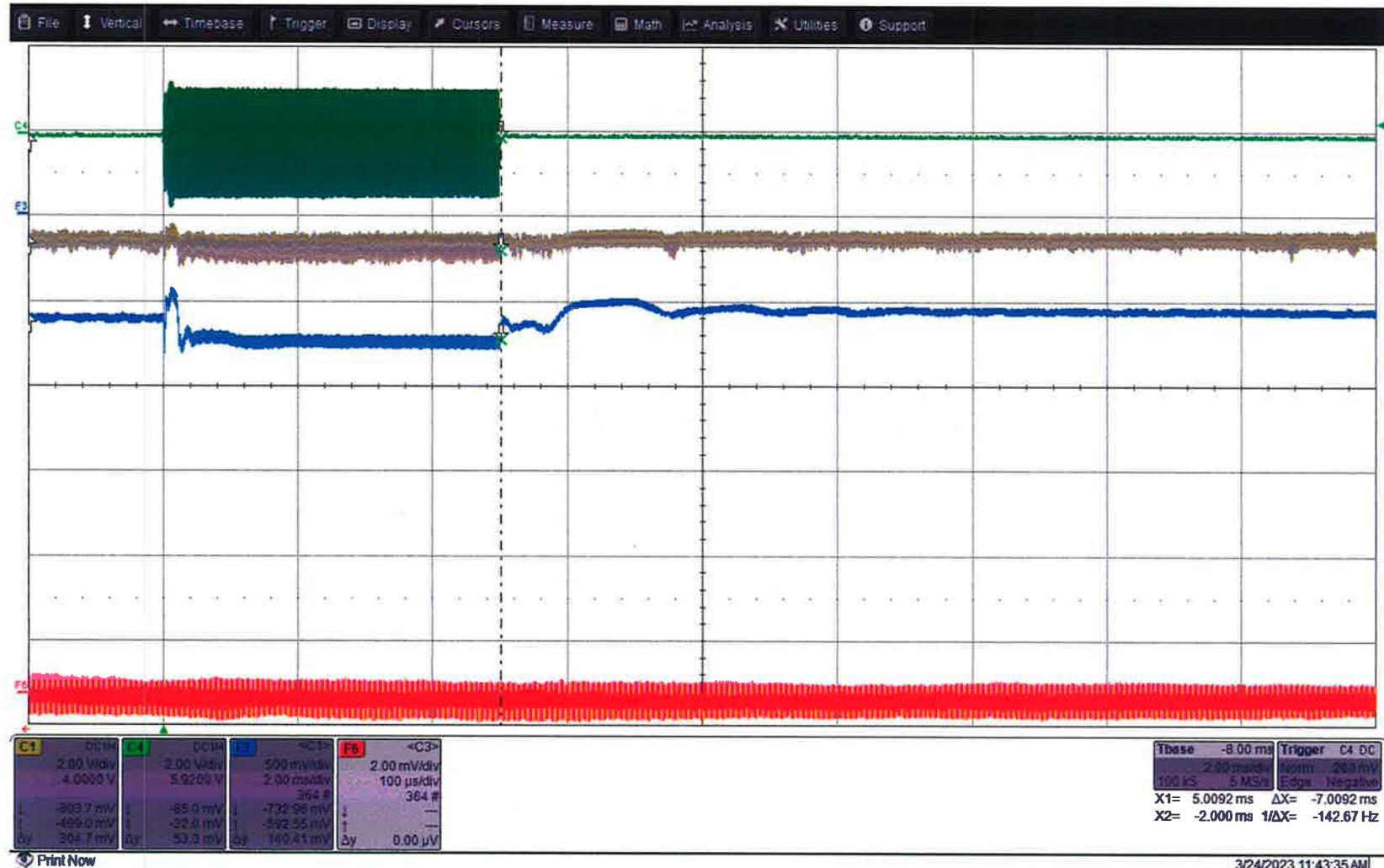
1 .5 V AC  
2 .1 V AC  
3 .5 V AC  
4 .1 V AC



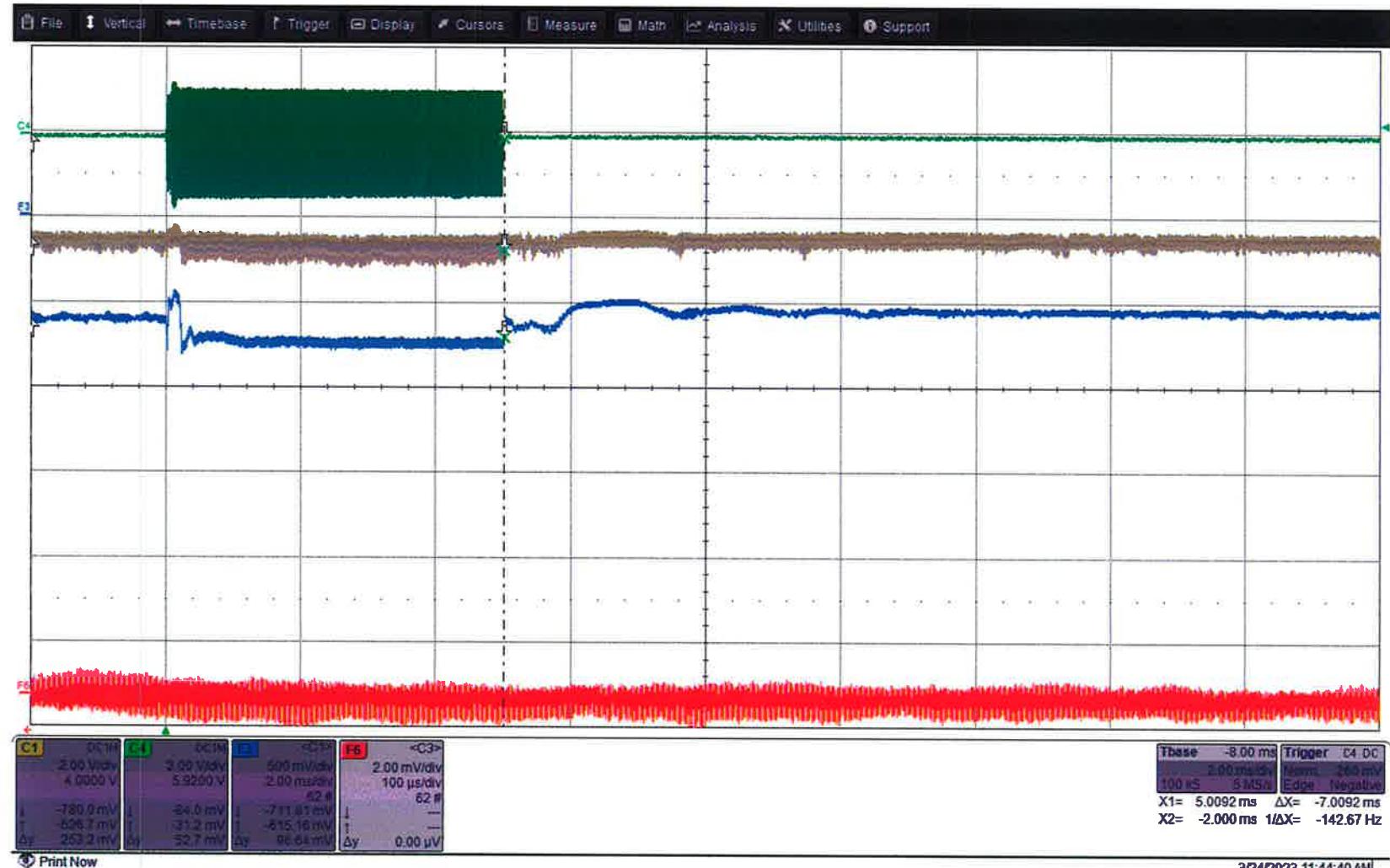
Ext DC 470mV 1MΩ

10 MS/s

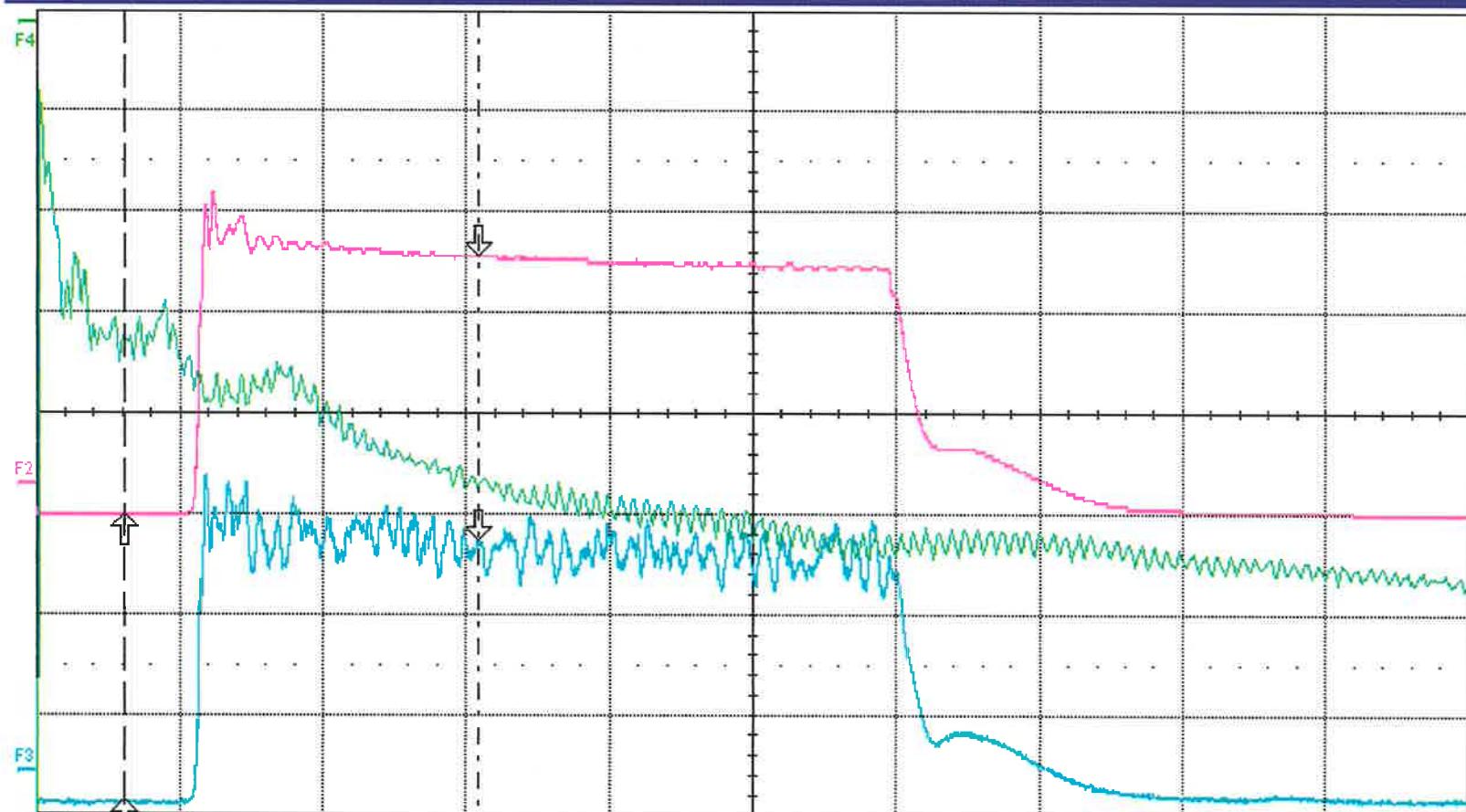
NORMAL



3/24/2023 11:43:35 AM



File Vertical Timebase Trigger Display Cursors Measure Math Analysis Utilities Help



F2 <F3>  
2.00/div  
1.00 ms/div  
257 #  
↓ 4.577390  
↑ -601.577e-3  
Δy -5.178966

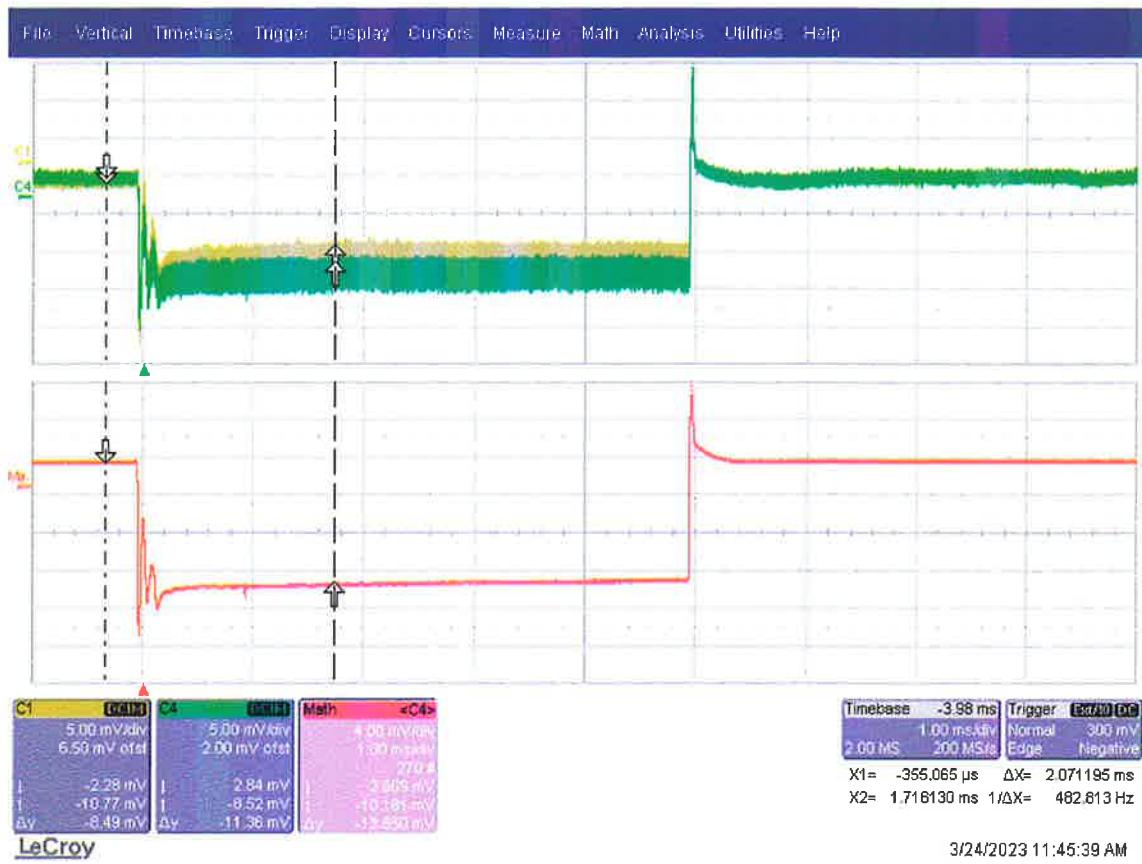
F3 script(C3,C2)  
2.00/div  
1.00 ms/div  
1 4.6090  
1 -619.3e-3  
Δy -5.2284

F4 <FFT(C2)>  
10.0 dB/div  
10.0 kHz/div  
265 #  
---  
---  
---

Tbase -3.98 ms Trigger Ext/10 DC  
1.00 ms/div Normal 130 mV  
50.0 kS 5.0 MS/s Edge Negative  
X1= 2.0652 ms ΔX= -2.4644 ms  
X2= -399.2 μs 1/ΔX= -405.78 Hz

LeCroy

3/24/2023 11:45:43 AM



24-Mar-23  
11:45:41

TRIGGER SETUP

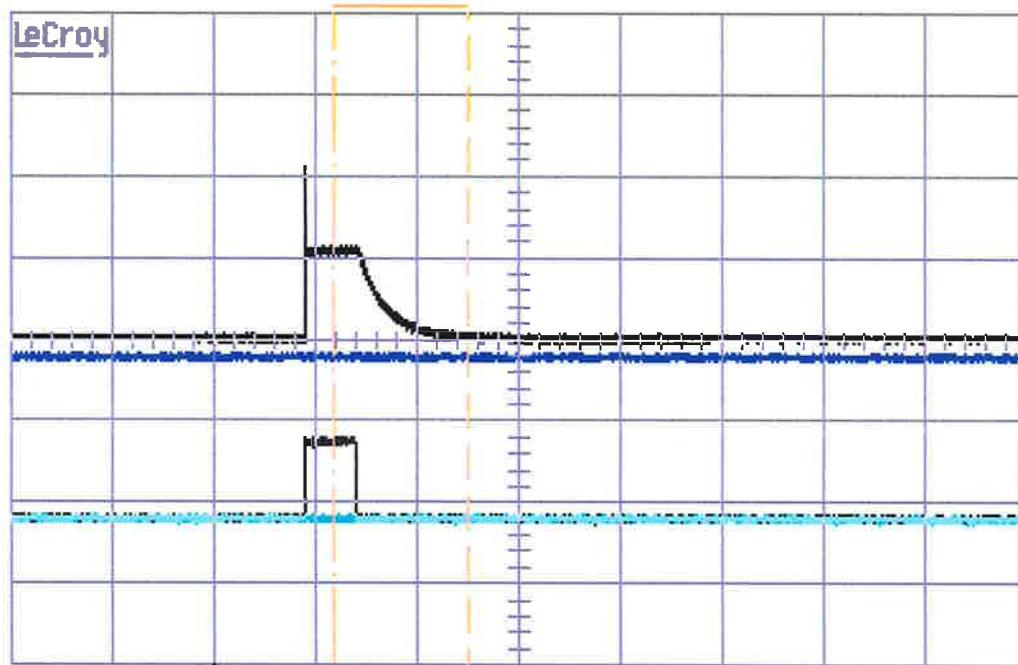
1  
1 ms  
50mV

3  
1 ms  
5.0 V

4  
1 ms  
200mV

2  
1 ms  
2.00 V

1 ms  
1 50 mV DC  
2 2 V DC  
3 5 V DC  
4 .2 V AC



Edge SMART

trigger on  
1 2 3 4 Ext  
Ext10 Line

cplg Ext10  
DC AC  
LFREJ HFREJ

slope Ext10  
Pos Neg  
Window

External  
Atten x1  
DC50Ω DC1MΩ

holdoff  
---  
OFF Time Evts

273 sweeps: average low high sigma  
rms(1) 29.24mV 29.16 29.33 0.04  
rms(2) 43mV 42 44 0  
rms(3) 1.969 V 1.962 1.983 0.004  
rms(4) 4.3mV 4.2 4.4 0.0  
phase(1,3) - - - - - - - -



Ext10 DC 0.75 V 50Ω

10 MS/s

NORMAL

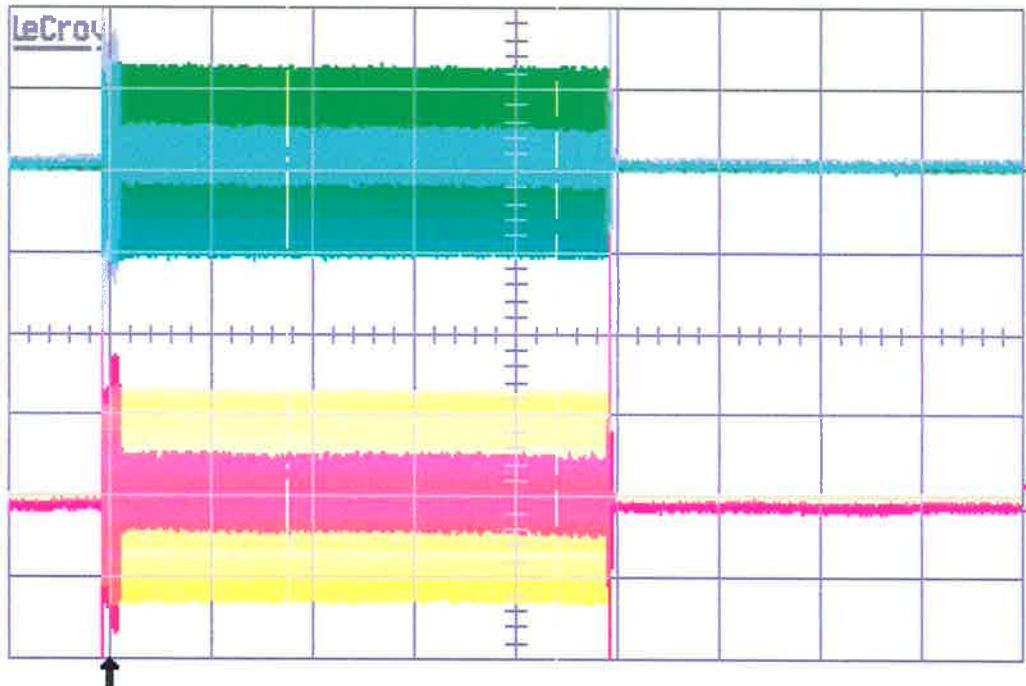
24-Mar-23  
11:45:57

1  
1 ms  
0.50 V

2  
1 ms  
100mV

3  
1 ms  
0.50 V

4  
1 ms  
100mV



282 sweeps: average low high sigma  
rms(1) 401.5mV 397.7 404.5 1.9  
rms(2) 23.2mV 22.4 24.2 0.5  
rms(3) 439.9mV 436.1 442.3 1.9  
rms(4) 34.8mV 33.4 34.7 0.3  
amp1(3) 1.225 V 1.208 1.244 0.010

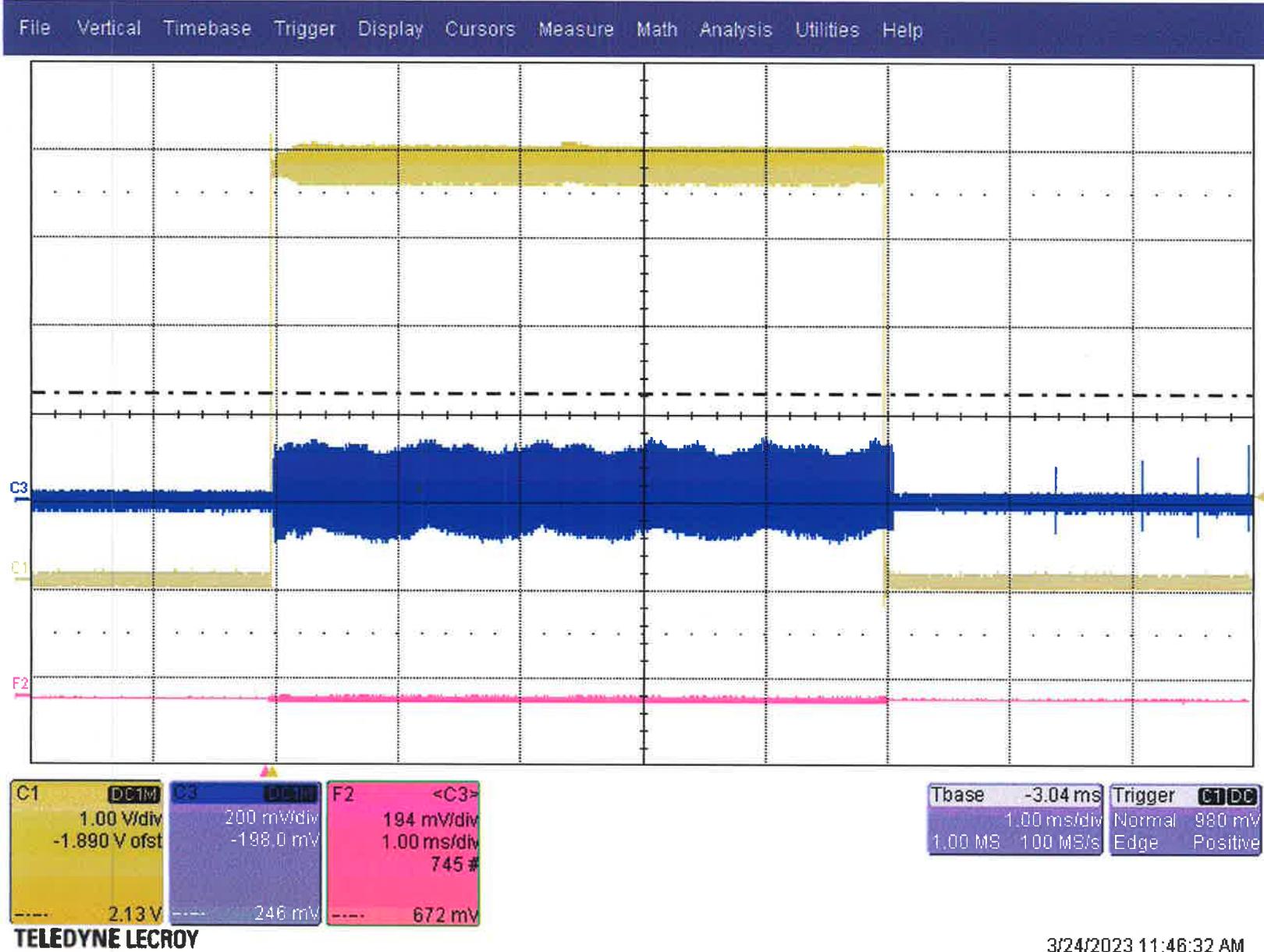
1 .5 V AC  
2 .1 V AC  
3 .5 V AC  
4 .1 V AC

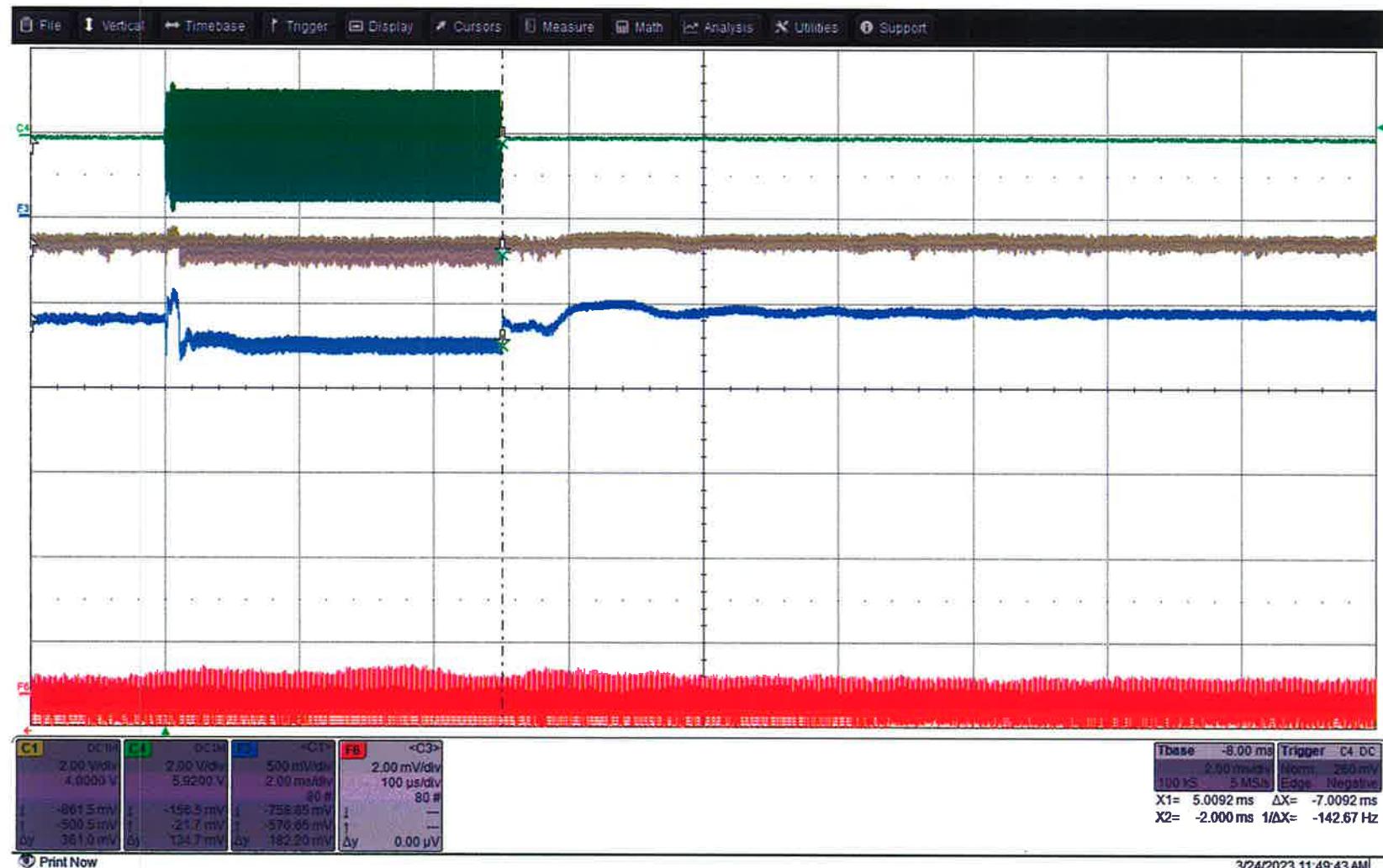


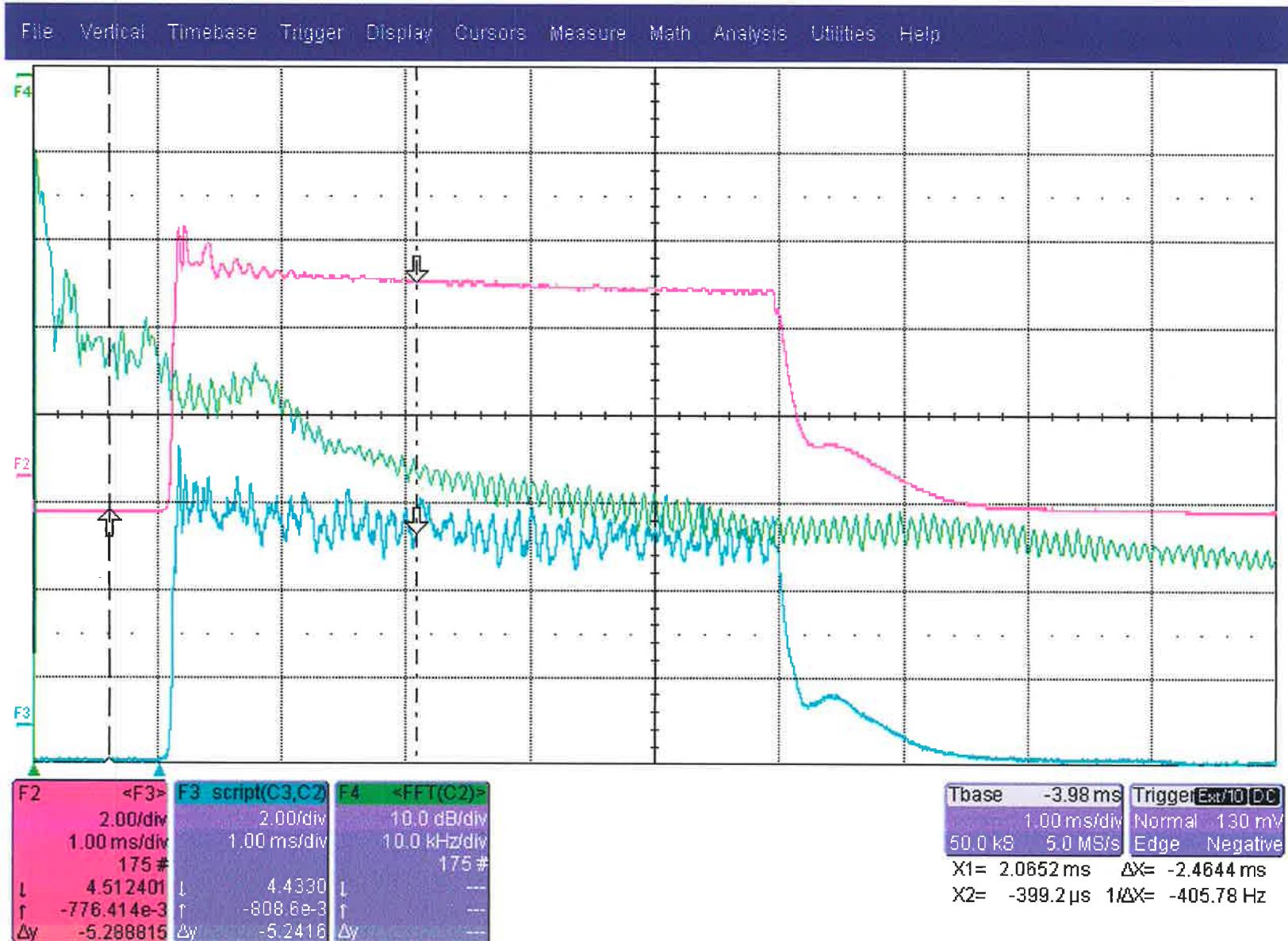
Ext DC 470mV 1MΩ

10 MS/s

NORMAL







LeCroy

3/24/2023 11:50:05 AM